WELCOME TO THE

2026 HEL ENGINEERING TECHNOLOGY CONFERENCE

MEET THE SPEAKERS

Adeeb Suliman

PRESIDENT, SIBA

Gabriel Pizarro, P. Eng

SR. TECHNICAL SALES ENGINEER, POWER BUS WAY

Matt Aman

GLOBAL ACCOUNT MANAGER, LEGRAND / CABLOFIL

Chad Burks

SOUTHWEST REGIONAL SALES MANAGER, ALLIENT

Keith Frantum

SOUTH CENTRAL REGIONAL SALES MANAGER, SATEC

Mike Ubanoski

APPLICATION ENGINEER TEAM LEAD, EATON

Mark Phillippy, P.E.

APPLICATION ENGINEER, EATON

Lucas Speaker

APPLICATION ENGINEER, EATON

Rennie Santilli

PRODUCT MARKETING SPECIALIST, DIGITAL TECHNOLOGY, ABB

Johan Lerner

OUTSIDE TECHNICAL SALES, ENHANCED ELECTRICAL SALES

Humberto Jimenez

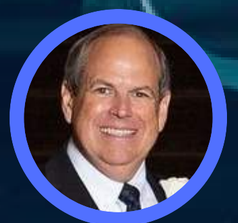
FIELD APPLICATION ENGINEER, EATON BUSSMANN

Justin Comer

SALES APPLICATION ENGINEER, DOUBLE E ENGINEERING SALES, INC.

Chris Small

SR. APPLICATION ENGINEER, REGIONAL MANAGER, POST GLOVER

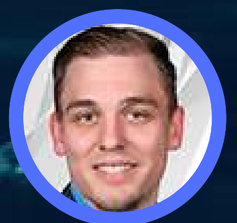


Keith Waters, P.E. C.E.M

DIRECTOR OF INDUSTRY STANDARDS, SCHNEIDER ELECTRIC

Devang Shah

BUSINESS DEVELOPMENT SPECIALIST, SCHNEIDER ELECTRIC



Michael Dutoit

PRODUCT MARKETING MANAGER, POWER CIRCUIT BREAKERS, ABB

Michael McGraw

BUSINESS DEVELOPMENT & ENGINEERING SERVICES, FIVE STAR ELECTRIC

Austin Miller

POWER QUALITY SALES MANAGER, MIRUS INTERNATIONAL

Dr. Recayi Pecen, Ph. D.

QUANTA ENDOWED PROFESSOR, IEEE & ASEE SENIOR MEMBER

DEPT OF ENGINEERING TECHNOLOGY - SHSU

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April 15th, 2026 - Exhibits open at 7:00AM

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Adeeb Suliman

DC Fuses: Uses, Challenges, and Solutions

10:00AM - 11:30AM and 3:00PM - 4:30PM

Room 101

The focus of this session is on the definition and function of fuses, with a particular emphasis on DC fuses' uses, challenges, and solutions.

Discussion Points:

1. Defining a fuse
    a. What is the construction of the fuse?
    b. Fuse function and limitations
    c. Characteristics of fuse / fuse selection
2. DC fuses
    a. Product offering (voltage / sizes / current ratings)
    b. Challenges and solutions
    c. Current & future DC direction
    d. Markets

Adeeb Suliman has a wealth of experience in both technical and managerial roles. His ability to balance hands-on technical involvement and leadership engagement have resulted in profitable contracts. He has a proven track record of elevating leadership actions and has exhibited significant technical and administrative expertise to organizations he has worked for, including his current role. Prior to joining SIBA, he held leadership positions at several Fortune 500 companies, such as Lucent Technologies, Motorola Inc., and Motorola Mobility (a subsidiary of Google).

Gabriel Pizarro

What is Cable Bus?

8:00AM - 9:30AM and 1:00PM - 2:30PM

Room 101

This presentation will dive into cable bus as a power feeder system. Explores code compliance, heat dissipation, weather-proofing, and has a detailed example on how the ampacity calculations for the cable bus systems are done for projects in the US. It tackles grounding based on the equipment grounding conductor and the supply side bonding jumper. It will show the type of industries and voltage ratings that the cable bus can be used in.

Gabriel is the Sr. Technical Sales Engineer for Power Bus Way Ltd., bringing 5 years of experience in the electrical industry with a strong focus on power system manufacturing. Since joining Power Bus Way in 2022, Gabriel has played a key role in developing engineering pricipals, technical application support, and a commitment to delivering reliable, engineered power distribution solutions. His focused background specific to cable bus provides a well-rounded perspective on system design, market requirements, and evolving system capabilities.

Matt Aman

Matt has three decades in MEP related industries. Cover all segments from data centers to LNG to hospitals and everything in between. Majority of projects have been US based, with some experience in Mexico, Canada, Spain and France.

Chad Burks

Harmonic Mitigation and Motor Protection Methods to protect your equipment and help increase up-time

10:00AM - 11:30AM and 3:00PM - 4:30PM
Room 102

Power quality and power reliability is critical to industrial operations and equipment. Harmonic distortion occurs from non-linear loads such as variable frequency drives and can negatively impact your equipment reliability, uptime and energy costs. By understanding what is causing harmonics and their effects, you will be able to determine the best solution to maintaining a safe level of harmonics within your facility and protecting your equipment.

Chad holds more than 30 years of diverse experience in all aspects of sales, marketing, design, and installation of electrical control products and systems. After earning his BS in Computer Science with a focus on Electronic Technology, Chad began his career as a systems integrator, designing, purchasing, building, programming, and commissioning automated control systems. Chad spent time at MTE as their product and commercial manager, introducing products. Prior to joining the TCI team, Chad worked for Rockwell Automation for 15 years, serving as Global Account Technical Sales Consultant as well as a member of the Kraft Foods global sales team. He also spent time as the Regional Marketing Manager for three sales districts, and as head of Commercial Marketing for the Operator Interface group, where he won the Business Impact Award.

Keith Frantum

DC Metering & Phasor Measurement Units

8:00AM - 9:30AM and 1:00PM - 2:30PM
Room 102

This module introduces two essential measurement technologies in modern power systems: DC Metering and Phasor Measurement Units (PMUs). Participants will learn how these tools enhance system monitoring, operational visibility, and grid reliability.

The DC Metering section covers key principles of measuring DC voltage, current, and power across applications such as battery systems, renewable interfaces, industrial controls, and HVDC. Topics include sensor types, accuracy and calibration needs, and integration with supervisory control systems.

The PMU section explains time-synchronized phasor measurement, including how PMUs capture real-time waveforms using GPS or network time. Learners will understand phasor, frequency, and ROCOF calculations, as well as how PMU data supports wide-area monitoring for grid stability, oscillation detection, model validation, and operator situational awareness.

At the end of the session, attendees will recognize the roles of DC metering and PMUs in grid operations and become better prepared to apply these concepts in engineering and field environments.

Keith Frantum is the South-Central Regional Sales Manager for SATEC Inc., he is a seasoned technical sales and business development executive with over three decades of diverse experience in the installation, design, repair of electrical systems and the application of effective energy management of electrical power and distribution systems in AC and DC Applications. Keith's extensive hands-on field experience ensures a comprehensive understanding of the complete project life cycle, enabling him to deliver high-value solutions. Over the past 15 years, he has focused on power quality analysis, understanding the impact of renewable energy, and mastering high-accuracy DC revenue-grade metering and software solutions.

Mike Ubanoski

Mark Phillippy

Lucas Speaker

Evaluating active versus passive front-end systems in drive applications

8:00AM - 9:30AM and 1:00PM - 2:30PM
Room 103

Explore the critical distinctions between active front-end (AFE) and passive front-end (PFE) medium voltage drive (MVD) designs. Includes a technical overview of each topology and the merits and limitations of each design including performance metrics such as efficiency, harmonic distortion, power factor, and dynamic response.

Mike strives to understand the inner workings and challenges of our customers on a national and global footprint to ensure Eaton is the best partner and trusted advisor we can be for our customers.

Mark & Lucas Collaborate with electrical consultants and specifying engineers to assist in the application, layout, and specification of medium- and low-voltage power distribution systems.

Rennie Santilli

Leveraging Microgrid SCADA for Resilient BESS Infrastructure

10:00AM - 11:30AM and 3:00PM - 4:30PM
Room 103

As traditional centralized grids face increasing instability and outages, ABB microgrids offer a resilient, sustainable alternative for modern power needs. The presentations explores the integration of microgrid solutions and SCADA-based management to optimize Battery Energy Storage Systems (BESS). By leveraging digital control technologies and segmented architectures, these systems ensure power reliability and network security. The synergy between on-site renewable generation and intelligent energy management allows for peak shaving, reduced emissions, and participation in grid ancillary services. Ultimately, deploying smart microgrids facilitates high energy efficiency and operational continuity.

Rennie Santilli is an experienced Marketing Specialist at ABB in the Greater Chicago Area, where he specializes in developing technical solutions and strategies around ABB's leading digital technologies. With a strong foundation in technical operations, his background includes leadership roles in manufacturing engineering at GE Power and quality engineering at Ford Motor Company. Rennie holds an MBA in Operations Management from DePaul University and a B.S. in Mechanical Engineering from Oakland University, combining technical expertise with business acumen to deliver value-engineered solutions.

Johan Lerner

Variable Speed Drive Basics: From Power Fundamentals to Practical Application

8:00AM - 9:30AM and 1:00PM - 2:30PM
Room 104

This presentation provides a practical introduction to variable frequency drives (VFDs) and their role in modern motor control. Topics include AC power fundamentals, motor operation, VFD architecture, control modes (V/Hz, sensorless vector, and closed-loop vector), and common industrial load types. Attendees will gain insight into efficiency considerations, harmonics, environmental factors, and best practices for commissioning and maintenance. The session concludes with real-world application examples and a hands-on demonstration to reinforce core concepts and improve confidence in selecting and applying AC drives.

Johan is an experienced electrical industry professional specializing in variable frequency drives, motor control, and industrial power systems. He supports engineers, contractors, and end users with application-level guidance on AC motors, VFD selection, control methods, and commissioning best practices. With a strong background in real-world industrial applications, Johan focuses on helping customers improve reliability, efficiency, and system performance through proper drive and motor integration. His approach combines technical fundamentals with practical insights drawn from field experience across a wide range of industries and operating environments.

Humberto Jimenez

Equipment SCCR & 2023 NEC Code Changes

10:00AM - 11:30AM and 3:00PM - 4:30PM
Room 104

This will Covers and explain the Short Circuit Ratings (SCCR), the fault current calculations, some important clarifications about key definitions such as interruptive rating vs short circuit current rating, we will be talking about the Methods to fix inadequate equipment SCCR requirements. 2023 NEC code changes that impact electrical equipment design through the presentation. Examples related with HVAC units, transfer switches, field issues and possible solutions, quick review and understanding of the label information.

Humberto is a Field Application Engineer with the Bussmann division. With more than nine years of experience at Bussmann supporting the engineering department, he has delivered superior technical support to sales professionals, distributors, original equipment manufacturers, and consulting engineers

Justin Comer

Motor Protection Basics - Thermal Protection

10:00AM - 11:30AM and 3:00PM - 4:30PM

Room 105

Motor protection can seem as much as an art as it is a science. Motor protection is essential to the operation and performance of the low and medium voltage motors that drive the many processes we depend on. This presentation will discuss the theory of motor rotor and stator heating and how modern microprocessor protection relays make use of a thermal model to estimate and represent the level of motor heating. Then the session will walk through the basics of setting up thermal motor protection and motor start supervision. Finally the presentation will discuss the lessons learned of a few application examples.

Justin is a Sales Application Engineer for Double E Engineering Sales, Inc. in North Texas, where he helps customers navigate technical solutions and products from the electrical equipment manufacturers he represents. Before joining Double E, Justin worked in the field as a Protection and Control Technician for a utility in North Texas, and then as a Protection and Control Application Engineer for GE Vernova. Justin is a member of IEEE.

Chris Small

How to Size High and Low Resistance Grounding for your Electrical Project

8:00AM - 9:30AM and 1:00PM - 2:30PM

Room 105

There are several things to consider when sizing your resistance grounding system. We will review both High and Low Resistance Grounding Systems and the reasoning behind how to choose the correct current value.

Chris Small is a Sr. Application Engineer and Regional Sales Manager for Post Glover Resistors, where he has worked for over 17 years. He obtained an Electrical Engineering degree from the Ohio State University. He consults and presents nationally on grounding topics.

Keith Waters

Selective Coordination of Protective Devices in Electrical Systems

8:00AM - 9:30AM and 1:00PM - 2:30PM

Room A

Requirements outlined in NFPA 70 (NEC), NFPA 99, and NFPA 110. Attendees will identify key coordination requirements, understand the instantaneous trip functions of circuit breakers, and examine the limitations of relying solely on time-current curves for achieving selective coordination. The discussion will highlight why traditional methods may fall short in complex systems and introduce practical strategies for improved design. Participants will learn how to effectively use short-circuit selective coordination table data to simplify analysis and ensure compliance. Additionally, the session will cover techniques to optimize system designs for selective coordination, enhancing reliability and safety in critical applications.

Keith is a Director of Industry Standards for Schneider Electric USA and is based in Lexington, Kentucky. He is responsible for overcurrent protective device and automation/control product standards, installation codes, and enforcement. Keith is a licensed Professional Engineer and a Certified Energy Manager.

Keith is actively involved with the IEEE Standards Association's Standards Board (RevCom Chair), Industry Application Society's Standards Department Chair and Industrial & Commercial Power Systems leadership. Keith maintains leadership positions within several industry standards technical committees. He is a representative to NEC Code Making Panels 3 and 11; and the NFPA 79 technical committee.

Devang Shah

IECC (International Energy Conservation Code), 2021 Adoption and Compliance

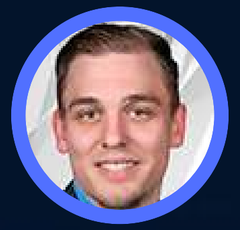
10:00AM - 11:30AM and 3:00PM - 4:30PM

Room A

The International Energy Conservation Code (IECC) 2021 was adopted by the City of Houston on January 2, 2024. IECC 2021 includes requirements for building improvements, HVAC, lighting, energy metering, and solar infrastructure. This session will review the updates made to IECC 2021 and how it applies to energy metering/monitoring requirements for projects located within the City of Houston and surrounding suburbs.

Devang is a Business Development Specialist at Schneider Electric, overseeing Power Monitoring hardware and software for Houston and South Texas. Devang assists Consultants, End Users, and Contractors with applying Codes and Standards for Energy Efficiency, such as LEED, IECC and ASHRAE.

Devang has been with Schneider Electric since 2013 in multiple roles across North America for Power Monitoring and Energy Management software. Devang frequently speaks on various cybersecurity, energy efficiency, sustainability, product application, and code compliance topics. He is actively involved with educating the local engineering community about IECC compliance and adaptation process for the City of Houston and suburbs.



Michael Dutoit

Future-Proofing Critical Infrastructure by Enhancing Operational Resilience

8:00AM - 9:30AM and 1:00PM - 2:30PM

Room B

Explore how reducing electrical contact points and simplifying system connections through digital and wireless technologies can significantly enhance the resilience and efficiency of vital sectors such as healthcare, finance, and data centers. By embracing the latest ABB Circuit Breaker innovations, organizations can not only streamline operations but also enable remote monitoring and gain deeper insights into system health, ensuring optimal performance and reliability in the face of increasing demands.

Mike Dutoit is a dedicated Product Marketing Manager at ABB, where he oversees the SACE Emax 2 and SACE Emax 3 Circuit Breakers product lines. Based in Memphis, Tennessee, he has spent over a decade at ABB in various leadership roles, including U.S. Product Manager for Low Voltage Power and OEM Alliance Account Manager. A graduate of the University of Wisconsin-Milwaukee with a degree in Economics and Business Administration, Mike combines deep technical product knowledge with a strong background in Sales Management and SAP.

Mark McGraw

"An Ounce of Testing Can Save a Pound of Cure": Requirements for and Benefits of Specification for New Installation, Retrofit and Routine Maintenance Testing Protocols for LV VFD/ASD Equipment

10:00AM - 11:30AM and 3:00PM - 4:30PM

Room B

There is an old saying, "An ounce of prevention is worth a pound of cure!" and for new and retrofit VFD/ASD installations and routine maintenance testing, this truism seems to have been forgotten. The presentation will cover a proposed testing protocol that can help avoid application and performance issues within your drive applications.

Austin Miller

Mike was previously US Regional Manager for Mirus International, from 2018 – 2022, Independent Engineering representative for Mirus International from 2009 – 2018, and President and Founder of NSOEM, Inc. 1996 - 2018 He is a member of the IEEE – IAS and has previously published IEEE papers presented at the PCIC 2010, 2014, 2015, 2016, 2018, 2019 & 2024.

Austin oversees the U.S. market for Mirus. Before joining Mirus International Inc. in 2023, he gained valuable experience as an application engineer specializing in power system harmonics at CTM Magnetics. He is a member of the IEEE.

Dr. Recayi Pecen. Ph.D.

The Importance of Ethics in Engineering

12:00PM - 1:00PM - BALLROOM

Engineering ethics forms the foundation of responsible professional practice. Engineers design systems, structures, and technologies that directly affect public safety, health, and welfare. Ethical considerations ensure that decisions prioritize human life, system reliability, environmental sustainability, and fairness—rather than profit or convenience. Without ethical guidelines, engineering projects risk catastrophic failures, environmental disasters, and loss of public trust. Principles such as honesty, integrity, accountability, and transparency guide engineers in making decisions that uphold societal values.

Teaching ethics is essential because engineers often encounter dilemmas where technical feasibility conflicts with moral responsibility. By understanding these principles, future engineers can navigate complex situations, resist unethical pressures, and advocate for safety and fairness. Ethics also strengthens professional credibility and ensures compliance with legal standards, reducing risks of litigation and reputational damage. Ethics in engineering and technology are strongly regulated by ABET EAC, ETAC, and other commissions. According to ABET, engineering curricula must include topics related to professional and ethical responsibilities, quality, and continuous improvement. Program-specific criteria also emphasize ethics as a core component. ABET requires that engineering and technology students recognize ethical and professional responsibilities in engineering situations and make informed judgments that consider the global, economic, environmental, and societal impacts of engineering solutions. Ultimately, ethics in engineering is not optional—it is a professional obligation that protects lives and sustains progress and innovation. This session will include audience-engaged discussions of ethical issues in engineering and technology.

Reg Pecen is a Quanta Endowed professor of Engineering Technology at Sam Houston State University. His research and publications are in the areas of electrical power systems, microgrid, renewable energy systems, and solar energy-enhanced fast charging stations. He served 14 years at the University of Northern Iowa (UNI) as a professor and program chair of EET and graduate programs. He served 4 years as the President and professor at North American University in Houston, Texas. Dr. Pecen is a recipient of service excellence awards at the College of Science and Engineering Technology (2024), and the engineering technology department (2022) at SHSU. Dr. Pecen served as the past chair (2012-13) of the American Society of Engineering Education (ASEE)'s Energy Conversion-Conservation and Nuclear Energy Education Division (ECCNED). Dr. Pecen is serving as an Engineering Technology Editor of the American Journal of Undergraduate Research (AJUR). Dr. Pecen served on multiple USDOE energy efficiency and renewable energy merit programs. Dr. Pecen was the recipient of 2011 UNI C.A.R.E Sustainability Award for the recognition of applied research and development of renewable energy applications in Iowa. Dr. Pecen was also recognized by the State of Iowa, State Senate on June 22, 2012, for the service excellence and contribution to Iowa for the development of clean and renewable energy, and promoting diversity and international education between 1998 and 2012. Dr Pecen completed the FBI Houston Citizens Leadership Academy Program in 2015-16 and completed the Fort Bend County/Houston Chamber of Commerce Leadership Forum for the class of 2016-17. He is a senior member of IEEE & ASEE and a member of TauBetaPi National Engineering Honor Society.